Author Index of Volume 475

Apperley, D.C., 85
Arnoldy, P., 57

Banditelli, G., 307
Behrens, U., 233
Bencze, L., 183
Berg, C., 247
Bickelhaupt, F., 1
Bied, C., 121
Biffis, A., 283
Blake, A.J., 193
Bondybey, V.E., 247
Bonifaci, C., 267
Brimah, A.K., 85
Budzelaar, P.H.M., 57

Cacchi, S., 289
Calhorda, M.J., 149
Carnicelli, V., 289
Ceccon, A., 267
Collin, J., 121
Corain, B., 283

Davies, N.A., 85
De Cian, A., 297
Dias, A.R., 241
Dinjus, E., 257
Drent, E., 57
Du Mont, W.-W., 95

Elizarova, G.L., 65

Fabbri, D., 307
Fischer, J., 297
Fischer, R., 247
Fischer, R.D., 85
Frenzen, G., 233

Gambaro, A., 267
Gamper, S., 113
Ganis, P., 267
Garcia, M.H., 241
Gaßner, F., 257
Gladiali, S., 307
Gleiter, R., 223
Green, M.L.H., 241

Harris, R.K., 85
Heck, J., 233
Heinemann, C., 73
Herd, O., 99
Herrmann, W.A., 73
Heßler, A., 99
Hofmann, J., 201
Hüffmann, G., 229

Jaitner, P., 113
Janiak, C., 223
Jeske, J., 95
Johnson, B.F.G., 31, 193
Jones, P.G., 95

Karnop, M., 95
Kempinger, W., 201
Kolomiichuk, V.N., 65
Kraatz, H.-B., 167
Kreißl, F.R., 177
Kronseder, C., 247
Kuebler, S.M., 241
Kuhn, N., 223
Kuznetsov, V.L., 65

Langhans, K.P., 99
Lantyukhova, I.G., 65
Leitner, W., 257
Loeber, C., 297
Lora, S., 283
Lorenz, I.-P., 211

Mach, K., 127
Manassero, M., 307
Mantovani, L., 267
Marçalo, J., 121
Marinelli, F., 289
Maters, M., 233
Mathey, F., 25
Matt, D., 297
Matvienko, L.G., 65
Möhring, U., 277
Möller, F., 157

Niedner-Schatteburg, G., 247
Nöth, H., 211

Obendorf, D., 113
Orama, O., 177
Ostermeier, J., 177

Palma, G., 283
Pohl, W., 211
Poli, R., 167

Raston, C.L., 15
Rodrigues, J.C., 241
Roelofsen, A., 233

Sansoni, M., 307
Santi, S., 267
Santos, I., 121
Schindler, T., 247
Schmid, G., 127
Schmidt, M., 211
Schmidt, S., 157
Schottenberger, H., 113
Schütt, W., 177
Shchegolikhina, O.I., 65
Sheldrick, W.S., 99
Siebel, E., 85
Sieker, A., 193
Siemeling, U., 229
Sommerdijk, H.T., 233
Stelzer, O., 99
Sundermeyer, J., 157
Sünkel, K., 201
Szilagyi, R., 183

Thewalt, U., 127
Thiel, W., 73
Troyanov, S., 139

Van de Weghe, P., 121
Varga, V., 127
Venzo, A., 267

Weferling, N., 99
Werner, H., 45, 277
Winpenny, R.E.P., 193

Zanin, A., 95
Zecca, M., 283
Zhdanov, A.A., 65

Journal of Organometallic Chemistry, 475 (1994) C3–C8

Subject Index of Volume 475

Ab initio
  Molecular mechanical studies on the olefin metathesis reaction. III. Modelling of the "well-defined" carbenes (L. Bencze and R. Szilagyi), 183
Alane
  Recent developments in the chemistry of alane (AlH_3) and gallane (GaH_3) (C.L. Raston), 15
Alkene
  Organometallic chemistry of alkenes and alkynes (H. Werner), 45
Alkoxide
  Polyhedral silsesquioxanes as precursors of tailor-made heterogeneous catalyst centres. I. Water oxidation (V.L. Kuznetsov, G.L. Elizarova, L.G. Matvienko, I.G. Lantyukhova, V.N. Kolomiichuk, A.A. Zhdanov and O.I. Shchegolikhina), 65
Alkyne
  Homogeneous catalysis by cationic palladium complexes. Precision catalysis in the carbonylation of alkynes (E. Drent, P. Arnoldy and P.H.M. Budzelaar), 57
  Organometallic chemistry of alkenes and alkynes (H. Werner), 45
Aluminium
  Recent developments in the chemistry of alane (AlH_3) and gallane (GaH_3) (C.L. Raston), 15
Arene
  Arene complexes of titanium and zirconium. Synthesis and structure (S. Troyanov), 139
  Arene-cluster compounds (B.F.G. Johnson), 31
Arsaphospholide
  Recent advances in the chemistry of phospholide and polyphospholide ions (F. Mathey), 25
Arsenic
  Recent advances in the chemistry of phospholide and polyphospholide ions (F. Mathey), 25
Azacyclopentadienyl
  Effects of isolobal substitution in cyclopentadienyl ligands: the azacyclopentadienyl system C_4R_4N. Comparative photoelectron spectra of the tetra-tert-butyl ferrocene derivatives (C. Janiak, N. Kuhn and R. Gleiter), 223
Azaferrocene
  Effects of isolobal substitution in cyclopentadienyl ligands: the azacyclopentadienyl system C_4R_4N. Comparative photoelectron spectra of the tetra-tert-butyl ferrocene derivatives (C. Janiak, N. Kuhn and R. Gleiter), 223

Bis(trimethylsilyl)acetylene
  Titanium-magnesium complexes containing perpendicularly bridging bis(trimethylsilyl)acetylene ligands (V. Varga, K. Mach, G. Schmid and U. Thewalt), 127
π-Bonding
  Arene complexes of titanium and zirconium. Synthesis and structure (S. Troyanov), 139
Bridging ligand
  Titanium-magnesium complexes containing perpendicularly bridging bis(trimethylsilyl)acetylene ligands (V. Varga, K. Mach, G. Schmid and U. Thewalt), 127

Calixarene
  Multifunctional phosphane and phosphane oxide ligands derived from *p*-tert-butylcalix[4]arene. Synthesis of a large diphosphane with C_2 symmetry and behaving as a *cis* or *trans* binding ligand (C. Loeber, D. Matt, A. De Cian and J. Fischer), 297
Carbene
  Molecular mechanical studies on the olefin metathesis reaction. III. Modelling of the "well-defined" carbenes (L. Bencze and R. Szilagyi), 183
  Organometallic chemistry of alkenes and alkynes (H. Werner), 45
Carbon dioxide
  Activation of carbon dioxide. IV. Rhodium-catalysed hydrogenation of carbon dioxide to formic acid (W. Leitner, E. Dinjus and F. Gaßner), 257
Carbonyl
  Coordination chemistry of perhalogenated cyclopentadienes and alkynes. XVIII. Mechanistic studies on the metal–halogen exchange reaction of ring-halogenated metallocenes: the influence of stoichiometry, temperature, solvent and reaction time (K. Sünkel, W. Kempinger and J. Hofmann), 201
  O atom transfer reactions in some manganese and rhenium carbonyl compounds (B.F.G. Johnson, A. Sieker, A.J. Blake and R.E.P. Winpenny), 193
  P-Funktionalisierte Diferriophosphonium Salze des Typs $[\{CpFe(CO)_2\}_2PPhR]^+X^-$ und $[\{CpFe(CO)_2\}_2PClR]^+X^-$ (I.-P. Lorenz, W. Pohl, H. Nöth und M. Schmidt), 211
Carbonylation
  Homogeneous catalysis by cationic palladium complexes. Precision catalysis in the carbonylation of alkynes (E. Drent, P. Arnoldy and P.H.M. Budzelaar), 57
Catalysis
  Activation of carbon dioxide. IV. Rhodium-catalysed hydrogenation of carbon dioxide to formic acid (W. Leitner, E. Dinjus and F. Gaßner), 257
  Heterobimetallic heptamethylindenyl complexes of Cr^0 and Rh^I: *trans*-$[Cr(CO)_3$-indenyl*-$RhL_2]$ (L_2 = COD, L = CO) (C. Bonifaci, A. Ceccon, A. Gambaro, P. Ganis, L. Mantovani, S. Santi and A. Venzo), 267
  Homogeneous catalysis by cationic palladium complexes. Precision catalysis in the carbonylation of alkynes (E. Drent, P. Arnoldy and P.H.M. Budzelaar), 57
  Supported rhodium-catalysts: new aspects in the formation of trisubstituted olefins from simple alkenes and diazoalkanes (H. Werner and U. Möhring), 277
  Wasserlösliche Phosphane. II. Ein neuer Syntheseweg für wasserlösliche sekundäre und tertiäre Phosphane mit sulfonierten aromatischen Resten – Kristallstruktur von $P(p\text{-}C_6H_4\text{-}SO_3K)_3 \cdot KCl \cdot 0.5H_2O$ (O. Herd, A. Heßler, K.P. Langhans, O. Stelzer, W.S. Sheldrick und N. Weferling), 99
Chirality
  Atropisomeric diaryl-core phosphole ligands: Pd^{II} and Pt^{II} complexes with P-phenyl dinaphthophosphole (S. Gladiali, D. Fabbri, G. Banditelli, M. Manassero and M. Sansoni), 307

Synthesis of a new asymmetric cyclopentadienyl ligand: application to the preparation of a trivalent samarium complex (P. Van de Weghe, C. Bied, J. Collin, J. Marçalo and I. Santos), 121

Chromium
Arene-cluster compounds (B.F.G. Johnson), 31
Heterobimetallic heptamethylindenyl complexes of Cr^0 and Rh^I: *trans*-[$Cr(CO)_3$-indenyl*-RhL_2] (L_2 = COD, L = CO) (C. Bonifaci, A. Ceccon, A. Gambaro, P. Ganis, L. Mantovani, S. Santi and A. Venzo), 267

Cluster
Arene complexes of titanium and zirconium. Synthesis and structure (S. Troyanov), 139
Arene-cluster compounds (B.F.G. Johnson), 31
Termetallocenes (P. Jaitner, H. Schottenberger, S. Gamper and D. Obendorf), 113

Cobalt
Cooperative effects in π-ligand bridged dinuclear complexes. XV. Heterodinuclear Fe-Co complexes from mononuclear η^5-cyclooctatrienyl iron complexes (U. Behrens, J. Heck, M. Maters, G. Frenzen, A. Roelofsen and H.T. Sommerdijk), 233
Generation and gas-phase reactivity of $CoGa^+$ (C. Kronseder, T. Schindler, C. Berg, R. Fischer, G. Niedner-Schatteburg and V.E. Bondybey), 247

π-Complexes
Arene-cluster compounds (B.F.G. Johnson), 31

Conproportionation
Cp*Mo-halide chemistry. Rapid halide scrambling during the conproportionation of $Cp^*_2Mo_2Y_4$ (Y = Cl, Br, I) and Cp^*MoX_4(X = Cl, Br): a paramagnetic ^1H NMR study (H.-B. Kraatz and R. Poli), 167

Copper
Polyhedral silsesquioxanes as precursors of tailor-made heterogeneous catalyst centres. I. Water oxidation (V.L. Kuznetsov, G.L. Elizarova, L.G. Matvienko, I.G. Lantyukhova, V.N. Kolomiichuk, A.A. Zhdanov and O.I. Shchegolikhina), 65
Towards organometallic zeolites: spontaneous self-assembly of Et_3SnCN, CuCN and ($^nBu_4N$)CN to supramolecular [($^nBu_4N$)(Et_3Sn)$_2$Cu(CN)$_4$] (A.K. Brimah, E. Siebel, R.D. Fischer, N.A. Davies, D.C. Apperley and R.K. Harris), 85

Crystal structure
Towards organometallic zeolites: spontaneous self-assembly of Et_3SnCN, CuCN and ($^nBu_4N$)CN to supramolecular [($^nBu_4N$)(Et_3Sn)$_2$Cu(CN)$_4$] (A.K. Brimah, E. Siebel, R.D. Fischer, N.A. Davies, D.C. Apperley and R.K. Harris), 85

Cumulene
Organometallic chemistry of alkenes and alkynes (H. Werner), 45

Cyanide
Towards organometallic zeolites: spontaneous self-assembly of Et_3SnCN, CuCN and ($^nBu_4N$)CN to supramolecular [($^nBu_4N$)(Et_3Sn)$_2$Cu(CN)$_4$] (A.K. Brimah, E. Siebel, R.D. Fischer, N.A. Davies, D.C. Apperley and R.K. Harris), 85

Cyclooctatetraene
Cooperative effects in π-ligand bridged dinuclear complexes. XV. Heterodinuclear Fe-Co complexes from mononuclear η^5-cyclooctatrienyl iron complexes (U. Behrens, J. Heck, M. Maters, G. Frenzen, A. Roelofsen and H.T. Sommerdijk), 233

Cyclopentadienyl
Coordination chemistry of perhalogenated cyclopentadienes and alkynes. XVIII. Mechanistic studies on the metal–halogen exchange reaction of ring-halogenated metallocenes: the influence of stoichiometry, temperature, solvent and reaction time (K. Sünkel, W. Kempinger and J. Hofmann), 201
Synthesis and characterization of η^5-monocyclopentadienyl (*p*-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies (A.R. Dias, M.H. Garcia, J.C. Rodrigues, M.L.H. Green and S.M. Kuebler), 241
Synthesis of a new asymmetric cyclopentadienyl ligand: application to the preparation of a trivalent samarium complex (P. Van de Weghe, C. Bied, J. Collin, J. Marçalo and I. Santos), 121

Cyclopentradienyl
Cp*Mo-halide chemistry. Rapid halide scrambling during the conproportionation of $Cp^*_2Mo_2Y_4$ (Y = Cl, Br, I) and Cp^*MoX_4(X = Cl, Br): a paramagnetic ^1H NMR study (H.-B. Kraatz and R. Poli), 167

Dealkylation
Umsetzung von 2,4-Dithio-1-wolframa-bicyclo[1.1.0]-butan-bis-tetrafluoroborat-Komplexen mit Thioharnstoff (W. Schütt, J. Ostermeier, O. Orama und F.R. Kreißl), 177

Electrochemistry
Cooperative effects in π-ligand bridged dinuclear complexes. XV. Heterodinuclear Fe-Co complexes from mononuclear η^5-cyclooctatrienyl iron complexes (U. Behrens, J. Heck, M. Maters, G. Frenzen, A. Roelofsen and H.T. Sommerdijk), 233
Termetallocenes (P. Jaitner, H. Schottenberger, S. Gamper and D. Obendorf), 113

Electron spin resonance
Cooperative effects in π-ligand bridged dinuclear complexes. XV. Heterodinuclear Fe-Co complexes from mononuclear η^5-cyclooctatrienyl iron complexes (U. Behrens, J. Heck, M. Maters, G. Frenzen, A. Roelofsen and H.T. Sommerdijk), 233

Extended Hückel calculations
Bonding of organometallic fragments to polyoxometallates (M.J. Calhorda), 149

Ferrocene
Aspects of the chemistry of the mixed ferrocene [$MeO(CH_2CH_2O)_3(CH_2)_3C_5Me_4$]Fe($C_5H_5$). Generation of the unusual α-ferrocenyl carbocation {[$MeO(CH_2CH_2O)_3(CH_2)_3C_5Me_4$]Fe($C_5H_4CH_2$)}$^+$ (U. Siemeling and G. Hüffmann), 229
Effects of isolobal substitution in cyclopentadienyl ligands: the azacyclopentadienyl system C_4R_4N. Comparative photoelectron spectra of the tetra-tert-butyl ferrocene derivatives (C. Janiak, N. Kuhn and R. Gleiter), 223

Gallane
Recent developments in the chemistry of alane (AlH_3) and gallane (GaH_3) (C.L. Raston), 15

Gallium
Generation and gas-phase reactivity of $CoGa^+$ (C. Kronseder, T. Schindler, C. Berg, R. Fischer, G. Niedner-Schatteburg and V.E. Bondybey), 247
Recent developments in the chemistry of alane (AlH_3) and gallane (GaH_3) (C.L. Raston), 15

Germanium
Novel trichlorosilylation and trichlorogermylation of a *P*-chlorophosphaalkene leading to functionally substituted diphosphenes (A. Zanin, M. Karnop, J. Jeske, P.G. Jones and W.-W. Du Mont), 95
Theoretical study of stable silylenes and germylenes (C. Heinemann, W.A. Herrmann and W. Thiel), 73

Grignard reagents
Organomagnesium chemistry: nearly hundred years but still fascinating (F. Bickelhaupt), 1

Halide
Cp*Mo-halide chemistry. Rapid halide scrambling during the conproportionation of $Cp^*_2Mo_2Y_4$ (Y = Cl, Br, I) and Cp^*MoX_4(X = Cl, Br): a paramagnetic ^1H NMR study (H.-B. Kraatz and R. Poli), 167
Heterobimetallics
Heterobimetallic heptamethylindenyl complexes of Cr^0 and Rh^I: *trans*-[$Cr(CO)_3$-indenyl*-RhL_2] (L_2 = COD, L = CO) (C. Bonifaci, A. Ceccon, A. Gambaro, P. Ganis, L. Mantovani, S. Santi and A. Venzo), 267
Hydride
Recent developments in the chemistry of alane (AlH_3) and gallane (GaH_3) (C.L. Raston), 15
Hydroformylation
Wasserlösliche Phosphane. II. Ein neuer Syntheseweg für wasserlösliche sekundäre und tertiäre Phosphane mit sulfonierten aromatischen Resten – Kristallstruktur von P(*p*-C_6H_4-$SO_3K)_3 \cdot KCl \cdot 0.5H_2O$ (O. Herd, A. Heßler, K.P. Langhans, O. Stelzer, W.S. Sheldrick und N. Weferling), 99
Hydrogenation
Activation of carbon dioxide. IV. Rhodium-catalysed hydrogenation of carbon dioxide to formic acid (W. Leitner, E. Dinjus and F. Gaßner), 257

Imide
Higher-valent derivatives of the d-metal acids. XII. α-Phosphonio(methylidene) complexes of niobium and tantalum containing the metallocene-like [(η^5-C_5R_5)M(N^tBu)] core (S. Schmidt, J. Sundermeyer and F. Möller), 157
Indenyl
Heterobimetallic heptamethylindenyl complexes of Cr^0 and Rh^I: *trans*-[$Cr(CO)_3$-indenyl*-RhL_2] (L_2 = COD, L = CO) (C. Bonifaci, A. Ceccon, A. Gambaro, P. Ganis, L. Mantovani, S. Santi and A. Venzo), 267
Indole
Palladium-catalysed cyclization of 2-alkynylanilines to 2-substituted indoles under an acidic two-phase system (S. Cacchi, V. Carnicelli and F. Marinelli), 289
Iron
Aspects of the chemistry of the mixed ferrocene [$MeO(CH_2CH_2O)_3(CH_2)_3C_5Me_4$]Fe($C_5H_5$). Generation of the unusual α-ferrocenyl carbocation {[$MeO(CH_2CH_2O)_3(CH_2)_3C_5Me_4$]Fe($C_5H_4CH_2$)}$^+$ (U. Siemeling and G. Hüffmann), 229
Cooperative effects in π-ligand bridged dinuclear complexes. XV. Heterodinuclear Fe-Co complexes from mononuclear η^5-cyclooctatrienyl iron complexes (U. Behrens, J. Heck, M. Maters, G. Frenzen, A. Roelofsen and H.T. Sommerdijk), 233
Effects of isolobal substitution in cyclopentadienyl ligands: the azacyclopentadienyl system C_4R_4N. Comparative photoelectron spectra of the tetra-tert-butyl ferrocene derivatives (C. Janiak, N. Kuhn and R. Gleiter), 223
P-Funktionalisierte Diferriophosphonium Salze des Typs [{$CpFe(CO)_2$}$_2$PPhR]$^+X^-$ und [{$CpFe(CO)_2$}$_2$PClR]$^+X^-$ (I.-P. Lorenz, W. Pohl, H. Nöth und M. Schmidt), 211
Polyhedral silsesquioxanes as precursors of tailor-made heterogeneous catalyst centres. I. Water oxidation (V.L. Kuznetsov, G.L. Elizarova, L.G. Matvienko, I.G. Lantyukhova, V.N. Kolomiichuk, A.A. Zhdanov and O.I. Shchegolikhina), 65
Isolobal
Effects of isolobal substitution in cyclopentadienyl ligands: the azacyclopentadienyl system C_4R_4N. Comparative photoelectron spectra of the tetra-tert-butyl ferrocene derivatives (C. Janiak, N. Kuhn and R. Gleiter), 223
Lithium
Coordination chemistry of perhalogenated cyclopentadienes and alkynes. XVIII. Mechanistic studies on the metal–halogen exchange reaction of ring-halogenated metallocenes: the influence of stoichiometry, temperature, solvent and reaction time (K. Sünkel, W. Kempinger and J. Hofmann), 201

Macrocycle
Multifunctional phosphane and phosphane oxide ligands derived from *p*-tert-butylcalix[4]arene. Synthesis of a large diphosphane with C_2 symmetry and behaving as a *cis* or *trans* binding ligand (C. Loeber, D. Matt, A. De Cian and J. Fischer), 297
Macrocycle, polyphospha-
Recent advances in the chemistry of phospholide and polyphospholide ions (F. Mathey), 25
Magnesium
Organomagnesium chemistry: nearly hundred years but still fascinating (F. Bickelhaupt), 1
Titanium-magnesium complexes containing perpendicularly bridging bis(trimethylsilyl)acetylene ligands (V. Varga, K. Mach, G. Schmid and U. Thewalt), 127
Manganese
Coordination chemistry of perhalogenated cyclopentadienes and alkynes. XVIII. Mechanistic studies on the metal–halogen exchange reaction of ring-halogenated metallocenes: the influence of stoichiometry, temperature, solvent and reaction time (K. Sünkel, W. Kempinger and J. Hofmann), 201
O atom transfer reactions in some manganese and rhenium carbonyl compounds (B.F.G. Johnson, A. Sieker, A.J. Blake and R.E.P. Winpenny), 193
Polyhedral silsesquioxanes as precursors of tailor-made heterogeneous catalyst centres. I. Water oxidation (V.L. Kuznetsov, G.L. Elizarova, L.G. Matvienko, I.G. Lantyukhova, V.N. Kolomiichuk, A.A. Zhdanov and O.I. Shchegolikhina), 65
Mass spectrometry
Generation and gas-phase reactivity of $CoGa^+$ (C. Kronseder, T. Schindler, C. Berg, R. Fischer, G. Niedner-Schatteburg and V.E. Bondybey), 247
Materials
Generation and gas-phase reactivity of $CoGa^+$ (C. Kronseder, T. Schindler, C. Berg, R. Fischer, G. Niedner-Schatteburg and V.E. Bondybey), 247
Metal–halogen exchange
Coordination chemistry of perhalogenated cyclopentadienes and alkynes. XVIII. Mechanistic studies on the metal–halogen exchange reaction of ring-halogenated metallocenes: the influence of stoichiometry, temperature, solvent and reaction time (K. Sünkel, W. Kempinger and J. Hofmann), 201
Metallocenes
Higher-valent derivatives of the d-metal acids. XII. α-Phosphonio(methylidene) complexes of niobium and tantalum containing the metallocene-like [(η^5-C_5R_5)M(N^tBu)] core (S. Schmidt, J. Sundermeyer and F. Möller), 157
Termetallocenes (P. Jaitner, H. Schottenberger, S. Gamper and D. Obendorf), 113
Metal–metal interactions
Termetallocenes (P. Jaitner, H. Schottenberger, S. Gamper and D. Obendorf), 113
Metathesis
Molecular mechanical studies on the olefin metathesis reaction. III. Modelling of the "well-defined" carbenes (L. Bencze and R. Szilagyi), 183

Methyl methacrylate
Homogeneous catalysis by cationic palladium complexes. Precision catalysis in the carbonylation of alkynes (E. Drent, P. Arnoldy and P.H.M. Budzelaar), 57
Molecular mechanics
Molecular mechanical studies on the olefin metathesis reaction. III. Modelling of the "well-defined" carbenes (L. Bencze and R. Szilagyi), 183
Molybdenum
Bonding of organometallic fragments to polyoxometallates (M.J. Calhorda), 149
Cp*Mo-halide chemistry. Rapid halide scrambling during the conproportionation of $Cp^*_2Mo_2Y_4$ (Y = Cl, Br, I) and Cp^*MoX_4(X = Cl, Br): a paramagnetic ^{1}H NMR study (H.-B. Kraatz and R. Poli), 167

Nickel
Polyhedral silsesquioxanes as precursors of tailor-made heterogeneous catalyst centres. I. Water oxidation (V.L. Kuznetsov, G.L. Elizarova, L.G. Matvienko, I.G. Lantyukhova, V.N. Kolomiichuk, A.A. Zhdanov and O.I. Shchegolikhina), 65
Niobium
Bonding of organometallic fragments to polyoxometallates (M.J. Calhorda), 149
Higher-valent derivatives of the d-metal acids. XII. α-Phosphonio(methylidene) complexes of niobium and tantalum containing the metallocene-like $[(\eta^5\text{-}C_5R_5)M(N^tBu)]$ core (S. Schmidt, J. Sundermeyer and F. Möller), 157
Non-linear optics
Synthesis and characterization of η^5-monocyclopentadienyl (*p*-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies (A.R. Dias, M.H. Garcia, J.C. Rodrigues, M.L.H. Green and S.M. Kuebler), 241
Nuclear magnetic resonance
Cp*Mo-halide chemistry. Rapid halide scrambling during the conproportionation of $Cp^*_2Mo_2Y_4$ (Y = Cl, Br, I) and Cp^*MoX_4(X = Cl, Br): a paramagnetic ^{1}H NMR study (H.-B. Kraatz and R. Poli), 167
Towards organometallic zeolites: spontaneous self-assembly of Et_3SnCN, CuCN and $(^nBu_4N)CN$ to supramolecular $[(^nBu_4N)(Et_3Sn)_2Cu(CN)_4]$ (A.K. Brimah, E. Siebel, R.D. Fischer, N.A. Davies, D.C. Apperley and R.K. Harris), 85
Wasserlösliche Phosphane. II. Ein neuer Syntheseweg für wasserlösliche sekundäre und tertiäre Phosphane mit sulfonierten aromatischen Resten – Kristallstruktur von P(*p*-$C_6H_4\text{-}SO_3K)_3 \cdot KCl \cdot 0.5H_2O$ (O. Herd, A. Heßler, K.P. Langhans, O. Stelzer, W.S. Sheldrick und N. Weferling), 99

Olefin
Molecular mechanical studies on the olefin metathesis reaction. III. Modelling of the "well-defined" carbenes (L. Bencze and R. Szilagyi), 183
Supported rhodium-catalysts: new aspects in the formation of trisubstituted olefins from simple alkenes and diazoalkanes (H. Werner and U. Möhring), 277
Osmium
Arene-cluster compounds (B.F.G. Johnson), 31
Oxidative addition
P-Funktionalisierte Diferriophosphonium Salze des Typs $[\{CpFe(CO)_2\}_2PPhR]^+X^-$ und $[\{CpFe(CO)_2\}_2PClR]^+X^-$ (I.-P. Lorenz, W. Pohl, H. Nöth und M. Schmidt), 211
Palladium
Atropisomeric diaryl-core phosphole ligands: Pd^{II} and Pt^{II} complexes with P-phenyl dinaphthophosphole (S. Gladiali, D. Fabbri, G. Banditelli, M. Manassero and M. Sansoni), 307
Homogeneous catalysis by cationic palladium complexes. Precision catalysis in the carbonylation of alkynes (E. Drent, P. Arnoldy and P.H.M. Budzelaar), 57
Interpenetrating organometallic polymer networks in heterogeneous catalysis: mild hydrogenation of *p*-nitrotoluene (B. Corain, M. Zecca, A. Biffis, S. Lora and G. Palma), 283
Palladium-catalysed cyclization of 2-alkynylanilines to 2-substituted indoles under an acidic two-phase system (S. Cacchi, V. Carnicelli and F. Marinelli), 289
Paramagnetism
Cp*Mo-halide chemistry. Rapid halide scrambling during the conproportionation of $Cp^*_2Mo_2Y_4$ (Y = Cl, Br, I) and Cp^*MoX_4(X = Cl, Br): a paramagnetic ^{1}H NMR study (H.-B. Kraatz and R. Poli), 167
Phase transfer
Wasserlösliche Phosphane. II. Ein neuer Syntheseweg für wasserlösliche sekundäre und tertiäre Phosphane mit sulfonierten aromatischen Resten – Kristallstruktur von P(*p*-$C_6H_4\text{-}SO_3K)_3 \cdot KCl \cdot 0.5H_2O$ (O. Herd, A. Heßler, K.P. Langhans, O. Stelzer, W.S. Sheldrick und N. Weferling), 99
Phosphanes
Activation of carbon dioxide. IV. Rhodium-catalysed hydrogenation of carbon dioxide to formic acid (W. Leitner, E. Dinjus and F. Gaßner), 257
Multifunctional phosphane and phosphane oxide ligands derived from *p*-tert-butylcalix[4]arene. Synthesis of a large diphosphane with C_2 symmetry and behaving as a *cis* or *trans* binding ligand (C. Loeber, D. Matt, A. De Cian and J. Fischer), 297
Phosphane ligands
Atropisomeric diaryl-core phosphole ligands: Pd^{II} and Pt^{II} complexes with P-phenyl dinaphthophosphole (S. Gladiali, D. Fabbri, G. Banditelli, M. Manassero and M. Sansoni), 307
Phosphine
Wasserlösliche Phosphane. II. Ein neuer Syntheseweg für wasserlösliche sekundäre und tertiäre Phosphane mit sulfonierten aromatischen Resten – Kristallstruktur von P(*p*-$C_6H_4\text{-}SO_3K)_3 \cdot KCl \cdot 0.5H_2O$ (O. Herd, A. Heßler, K.P. Langhans, O. Stelzer, W.S. Sheldrick und N. Weferling), 99
Phospholide
Recent advances in the chemistry of phospholide and polyphospholide ions (F. Mathey), 25
Phosphorus
Higher-valent derivatives of the d-metal acids. XII. α-Phosphonio(methylidene) complexes of niobium and tantalum containing the metallocene-like $[(\eta^5\text{-}C_5R_5)M(N^tBu)]$ core (S. Schmidt, J. Sundermeyer and F. Möller), 157
Novel trichlorosilylation and trichlorogermylation of a *P*-chlorophosphaalkene leading to functionally substituted diphosphenes (A. Zanin, M. Karnop, J. Jeske, P.G. Jones and W.-W. Du Mont), 95
P-Funktionalisierte Diferriophosphonium Salze des Typs $[\{CpFe(CO)_2\}_2PPhR]^+X^-$ und $[\{CpFe(CO)_2\}_2PClR]^+X^-$ (I.-P. Lorenz, W. Pohl, H. Nöth und M. Schmidt), 211
Recent advances in the chemistry of phospholide and polyphospholide ions (F. Mathey), 25
Photoelectron spectroscopy
Effects of isolobal substitution in cyclopentadienyl ligands: the azacyclopentadienyl system C_4R_4N. Comparative photoelectron spectra of the tetra-tert-butyl ferrocene derivatives (C. Janiak, N. Kuhn and R. Gleiter), 223

Platinum
Atropisomeric diaryl-core phosphole ligands: Pd^{II} and Pt^{II} complexes with P-phenyl dinaphthophosphole (S. Gladiali, D. Fabbri, G. Banditelli, M. Manassero and M. Sansoni), 307
Multifunctional phosphane and phosphane oxide ligands derived from *p*-tert-butylcalix[4]arene. Synthesis of a large diphosphane with C_2 symmetry and behaving as a *cis* or *trans* binding ligand (C. Loeber, D. Matt, A. De Cian and J. Fischer), 297
Polymer
Interpenetrating organometallic polymer networks in heterogeneous catalysis: mild hydrogenation of *p*-nitrotoluene (B. Corain, M. Zecca, A. Biffis, S. Lora and G. Palma), 283
Towards organometallic zeolites: spontaneous self-assembly of Et_3SnCN, CuCN and $(^nBu_4N)CN$ to supramolecular $[(^nBu_4N)(Et_3Sn)_2Cu(CN)_4]$ (A.K. Brimah, E. Siebel, R.D. Fischer, N.A. Davies, D.C. Apperley and R.K. Harris), 85
Polyoxometallate
Bonding of organometallic fragments to polyoxometallates (M.J. Calhorda), 149
Polyphospholide
Recent advances in the chemistry of phospholide and polyphospholide ions (F. Mathey), 25
2-Pyridylphosphine
Homogeneous catalysis by cationic palladium complexes. Precision catalysis in the carbonylation of alkynes (E. Drent, P. Arnoldy and P.H.M. Budzelaar), 57

Rhenium
O atom transfer reactions in some manganese and rhenium carbonyl compounds (B.F.G. Johnson, A. Sieker, A.J. Blake and R.E.P. Winpenny), 193
Rhodium
Activation of carbon dioxide. IV. Rhodium-catalysed hydrogenation of carbon dioxide to formic acid (W. Leitner, E. Dinjus and F. Gaßner), 257
Bonding of organometallic fragments to polyoxometallates (M.J. Calhorda), 149
Heterobimetallic heptamethylindenyl complexes of Cr^0 and Rh^I: *trans*-$[Cr(CO)_3$-indenyl*-$RhL_2]$ (L_2 = COD, L = CO) (C. Bonifaci, A. Ceccon, A. Gambaro, P. Ganis, L. Mantovani, S. Santi and A. Venzo), 267
Multifunctional phosphane and phosphane oxide ligands derived from *p*-tert-butylcalix[4]arene. Synthesis of a large diphosphane with C_2 symmetry and behaving as a *cis* or *trans* binding ligand (C. Loeber, D. Matt, A. De Cian and J. Fischer), 297
Organometallic chemistry of alkenes and alkynes (H. Werner), 45
Supported rhodium-catalysts: new aspects in the formation of trisubstituted olefins from simple alkenes and diazoalkanes (H. Werner and U. Möhring), 277
Ruthenium
Multifunctional phosphane and phosphane oxide ligands derived from *p*-tert-butylcalix[4]arene. Synthesis of a large diphosphane with C_2 symmetry and behaving as a *cis* or *trans* binding ligand (C. Loeber, D. Matt, A. De Cian and J. Fischer), 297
Synthesis and characterization of η^5-monocyclopentadienyl (*p*-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies (A.R. Dias, M.H. Garcia, J.C. Rodrigues, M.L.H. Green and S.M. Kuebler), 241

Samarium
Synthesis of a new asymmetric cyclopentadienyl ligand: application to the preparation of a trivalent samarium complex (P. Van de Weghe, C. Bied, J. Collin, J. Marçalo and I. Santos), 121
Second harmonic generation
Synthesis and characterization of η^5-monocyclopentadienyl (*p*-nitrobenzonitrile)ruthenium(II) salts: second harmonic generation powder efficiencies (A.R. Dias, M.H. Garcia, J.C. Rodrigues, M.L.H. Green and S.M. Kuebler), 241
Silicon
Novel trichlorosilylation and trichlorogermylation of a *P*-chlorophosphaalkene leading to functionally substituted diphosphenes (A. Zanin, M. Karnop, J. Jeske, P.G. Jones and W.-W. Du Mont), 95
Polyhedral silsesquioxanes as precursors of tailor-made heterogeneous catalyst centres. I. Water oxidation (V.L. Kuznetsov, G.L. Elizarova, L.G. Matvienko, I.G. Lantyukhova, V.N. Kolomiichuk, A.A. Zhdanov and O.I. Shchegolikhina), 65
Theoretical study of stable silylenes and germylenes (C. Heinemann, W.A. Herrmann and W. Thiel), 73
Structure
Arene complexes of titanium and zirconium. Synthesis and structure (S. Troyanov), 139
Termetallocenes (P. Jaitner, H. Schottenberger, S. Gamper and D. Obendorf), 113
Umsetzung von 2,4-Dithio-1-wolframa-bicyclo[1.1.0]-butan-bis-tetrafluoroborat-Komplexen mit Thioharnstoff (W. Schütt, J. Ostermeier, O. Orama und F.R. Kreißl), 177
Supported catalyst
Polyhedral silsesquioxanes as precursors of tailor-made heterogeneous catalyst centres. I. Water oxidation (V.L. Kuznetsov, G.L. Elizarova, L.G. Matvienko, I.G. Lantyukhova, V.N. Kolomiichuk, A.A. Zhdanov and O.I. Shchegolikhina), 65
Supported rhodium-catalysts: new aspects in the formation of trisubstituted olefins from simple alkenes and diazoalkanes (H. Werner and U. Möhring), 277
Synthesis
Arene complexes of titanium and zirconium. Synthesis and structure (S. Troyanov), 139

Tantalum
Higher-valent derivatives of the d-metal acids. XII. α-Phosphonio(methylidene) complexes of niobium and tantalum containing the metallocene-like $[(\eta^5\text{-}C_5R_5)M(N^tBu)]$ core (S. Schmidt, J. Sundermeyer and F. Möller), 157
Theory
Theoretical study of stable silylenes and germylenes (C. Heinemann, W.A. Herrmann and W. Thiel), 73
Tin
Towards organometallic zeolites: spontaneous self-assembly of Et_3SnCN, CuCN and $(^nBu_4N)CN$ to supramolecular $[(^nBu_4N)(Et_3Sn)_2Cu(CN)_4]$ (A.K. Brimah, E. Siebel, R.D. Fischer, N.A. Davies, D.C. Apperley and R.K. Harris), 85
Titanium
Arene complexes of titanium and zirconium. Synthesis and structure (S. Troyanov), 139
Bonding of organometallic fragments to polyoxometallates (M.J. Calhorda), 149
Titanium-magnesium complexes containing perpendicularly bridging bis(trimethylsilyl)acetylene ligands (V. Varga, K. Mach, G. Schmid and U. Thewalt), 127

Transition metals general
Termetallocenes (P. Jaitner, H. Schottenberger, S. Gamper and D. Obendorf), 113
Trimethylsilyl
P-Funktionalisierte Diferriophosphonium Salze des Typs $[\{CpFe(CO)_2\}_2PPhR]^+X^-$ und $[\{CpFe(CO)_2\}_2PClR]^+X^-$ (I.-P. Lorenz, W. Pohl, H. Nöth und M. Schmidt), 211
Tungsten
Molecular mechanical studies on the olefin metathesis reaction. III. Modelling of the "well-defined" carbenes (L. Bencze and R. Szilagyi), 183
Umsetzung von 2,4-Dithio-1-wolframa-bicyclo[1.1.0]-butan-bis-tetrafluoroborat-Komplexen mit Thioharnstoff (W. Schütt, J. Ostermeier, O. Orama und F.R. Kreißl), 177
Two-phase catalysis
Palladium-catalysed cyclization of 2-alkynylanilines to 2-substituted indoles under an acidic two-phase system (S. Cacchi, V. Carnicelli and F. Marinelli), 289

Vinylidene
Organometallic chemistry of alkenes and alkynes (H. Werner), 45

Water soluble phosphine
Wasserlösliche Phosphane. II. Ein neuer Syntheseweg für wasserlösliche sekundäre und tertiäre Phosphane mit sulfonierten aromatischen Resten – Kristallstruktur von $P(p\text{-}C_6H_4\text{-}SO_3K)_3 \cdot KCl \cdot 0.5H_2O$ (O. Herd, A. Heßler, K.P. Langhans, O. Stelzer, W.S. Sheldrick und N. Weferling), 99

X-ray diffraction
Cooperative effects in π-ligand bridged dinuclear complexes. XV. Heterodinuclear Fe-Co complexes from mononuclear η^5-cyclooctatrienyl iron complexes (U. Behrens, J. Heck, M. Maters, G. Frenzen, A. Roelofsen and H.T. Sommerdijk), 233
X-ray structure
Titanium-magnesium complexes containing perpendicularly bridging bis(trimethylsilyl)acetylene ligands (V. Varga, K. Mach, G. Schmid and U. Thewalt), 127

Ylide
Higher-valent derivatives of the d-metal acids. XII. α-Phosphonio(methylidene) complexes of niobium and tantalum containing the metallocene-like $[(\eta^5\text{-}C_5R_5)M(N^tBu)]$ core (S. Schmidt, J. Sundermeyer and F. Möller), 157

Zirconium
Arene complexes of titanium and zirconium. Synthesis and structure (S. Troyanov), 139